

Rapid Communication

Hydrodynamic interaction between an accretion flow and a strong wind around a black hole

D MOLteni, K ACHARYA AND SANDIP K CHAKRABARTI

Atomic & Molecular Physics

Transition assignments to $L\beta I$ satellites in X-ray emission spectra of first transition series

S N SONI AND S POONIA

Theoretical study of intermolecular interactions in nematogens : TBMA

SUGRIVA N TIWARI, MADHURENDRA MISHRA AND NITISH K SANYAL

General Physics

Molecular interaction study in binary mixtures of dimethylsulphoxide with 1, 2-dichloroethane and 1, 1, 2, 2 - tetrachloroethane at 303 K

A ALI AND H SOGHRA

Generation of circular polarization from microstrip scanned array antenna on YIG ferrite substrate

LATA DIXIT AND P K S POURUSH

Optics & Spectroscopy

Vibrational spectra and force fields for 2,3-; 2,4-; 2,5- and 3,4- dihydroxybenzaldehydes

D N SINGH, I D SINGH AND R A YADAV

Plasma Physics

Wavevector and frequency dependent complex dielectric function and the dynamical structure factor of two dimensional weakly coupled quantum and classical hot plasmas

S P TEWARI AND JYOTI SOOD

Self focusing of electromagnetic waves in collisional plasmas

GHANSHYAM, M N SINGH, R MISHRA, V K TRIPATHI AND H D PANDY

On the effects of drift motion and negative ions on ion-acoustic solitary waves and double-layers in plasmas

S CHATTOPADHYAY, S K BHATTACHARYYA AND S N PAUL

Relativity & Cosmology

Junction conditions on the boundary of two different spacetime manifolds

KOUROSH NOZARI

Nonstatic global monopole in higher dimensional space time

F RAHAMAN, S CHAKRABORTY, K MAITY AND M KALAM

Note

Thermodynamic functions of 2-antlinopyridine from IR and Raman Spectra

M ISAQ